FIG. 1

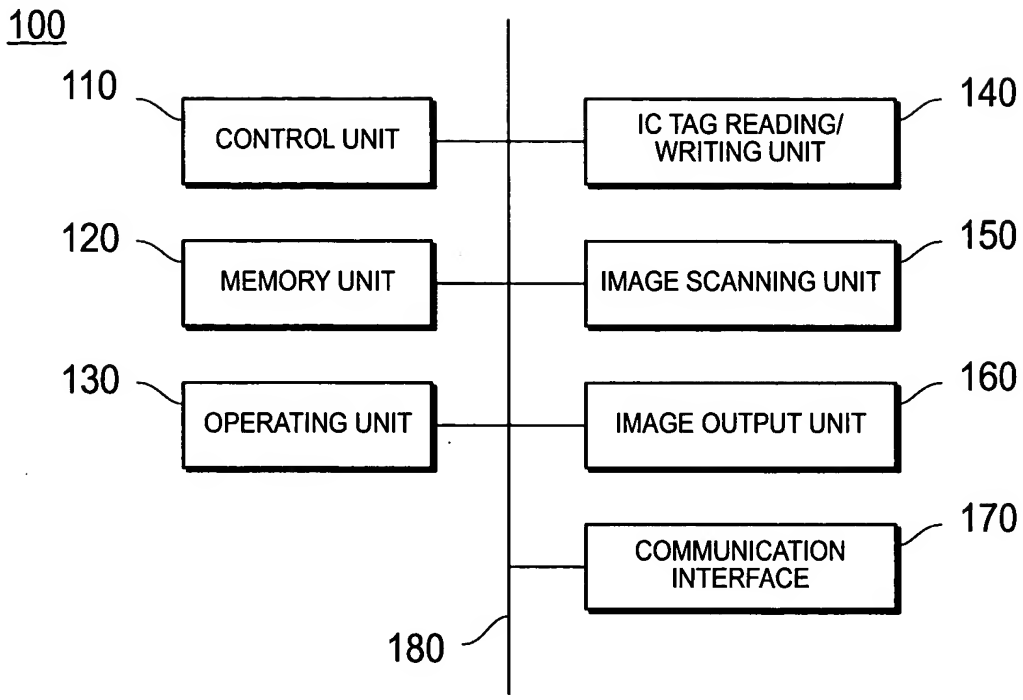

100
110
CONTROL UNIT
120
MEMORY UNIT
130
OPERATING UNIT
140
IC TAG READING/
WRITING UNIT
150
IMAGE SCANNING UNIT
160
IMAGE OUTPUT UNIT
170
COMMUNICATION
INTERFACE
180

FIG. 2

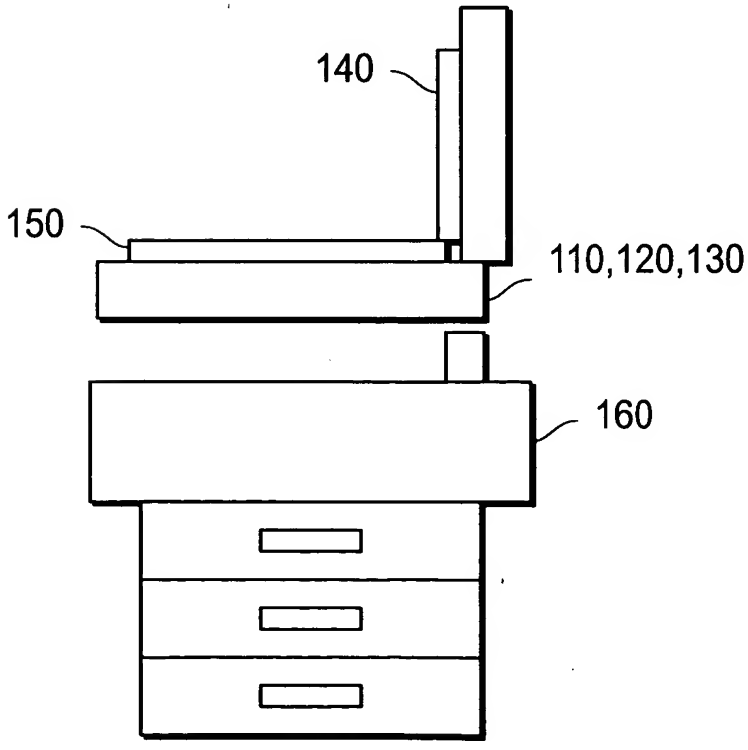

140
150
110,120,130
160

FIG. 3

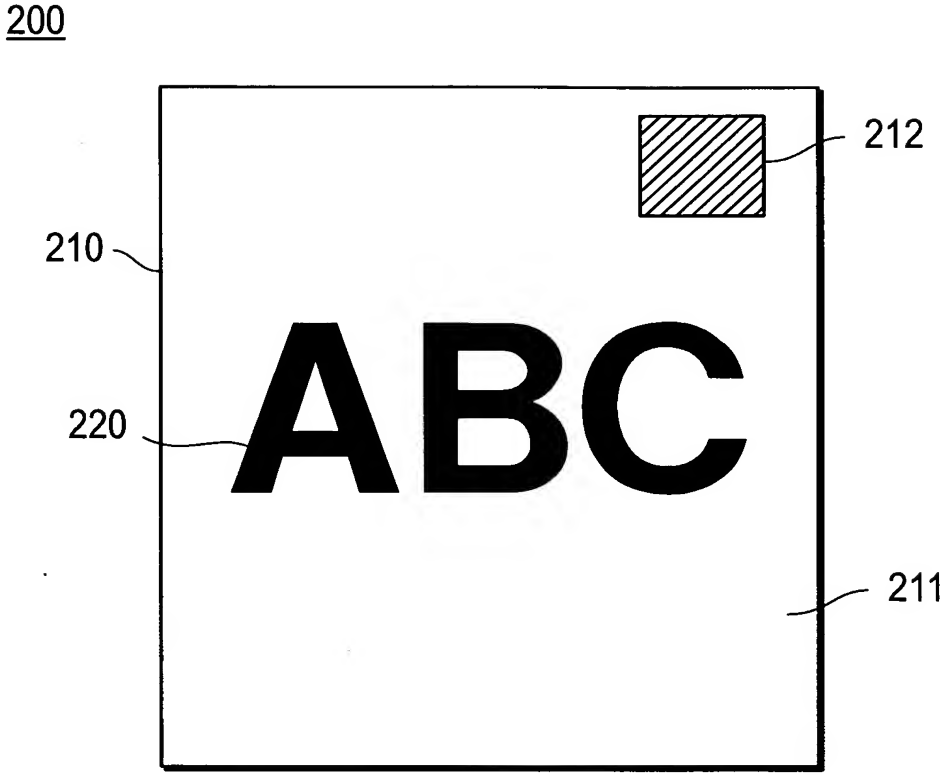


FIG. 4

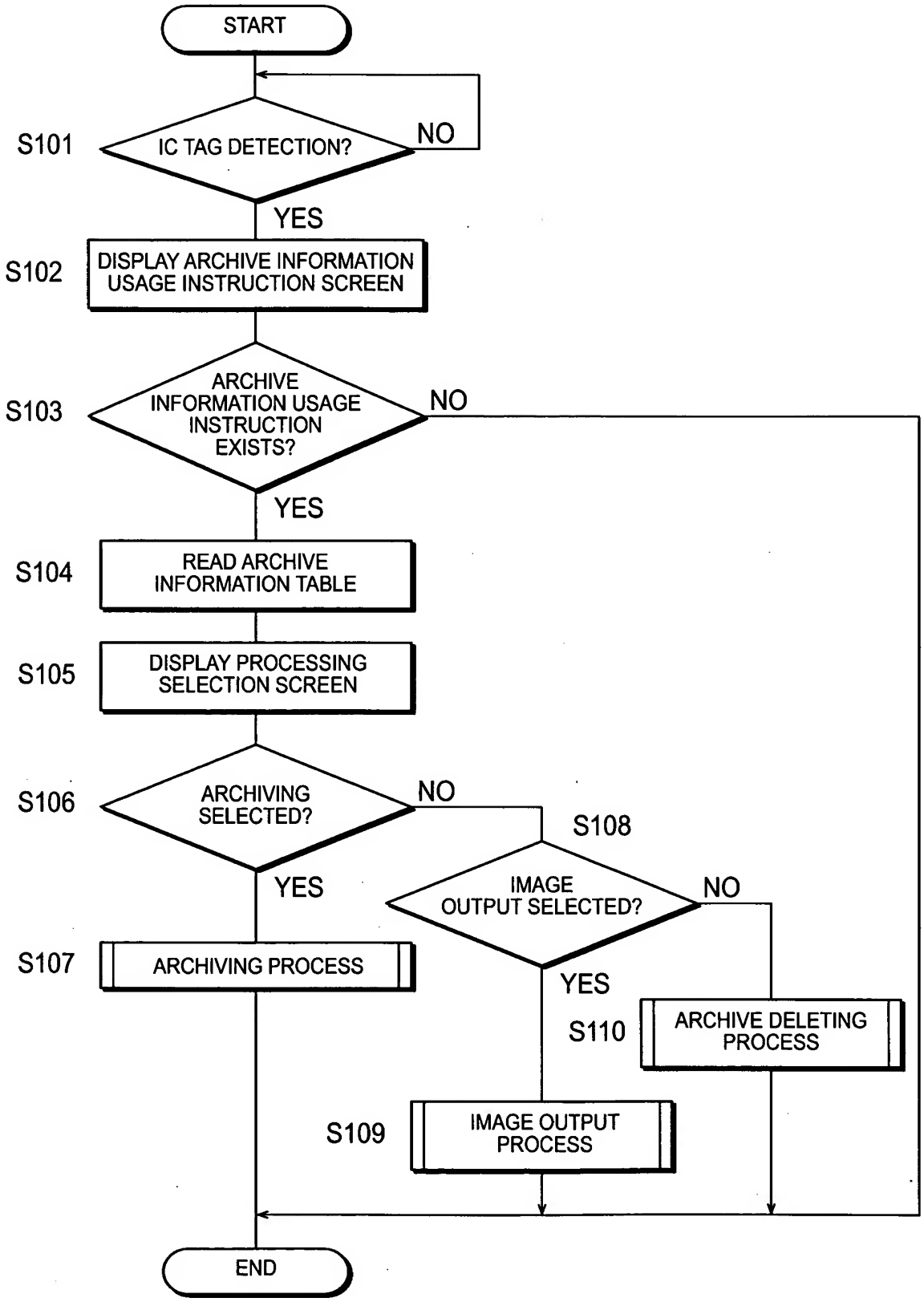

START
S101
IC TAG DETECTION?
NO
YES
S102
DISPLAY ARCHIVE INFORMATION USAGE INSTRUCTION SCREEN
S103
ARCHIVE INFORMATION USAGE INSTRUCTION EXISTS?
NO
YES
S104
READ ARCHIVE INFORMATION TABLE
S105
DISPLAY PROCESSING SELECTION SCREEN
S106
ARCHIVING SELECTED?
NO
YES
S107
ARCHIVING PROCESS
S108
IMAGE OUTPUT SELECTED?
NO
YES
S110
ARCHIVE DELETING PROCESS
S109
IMAGE OUTPUT PROCESS
END

FIG. 5

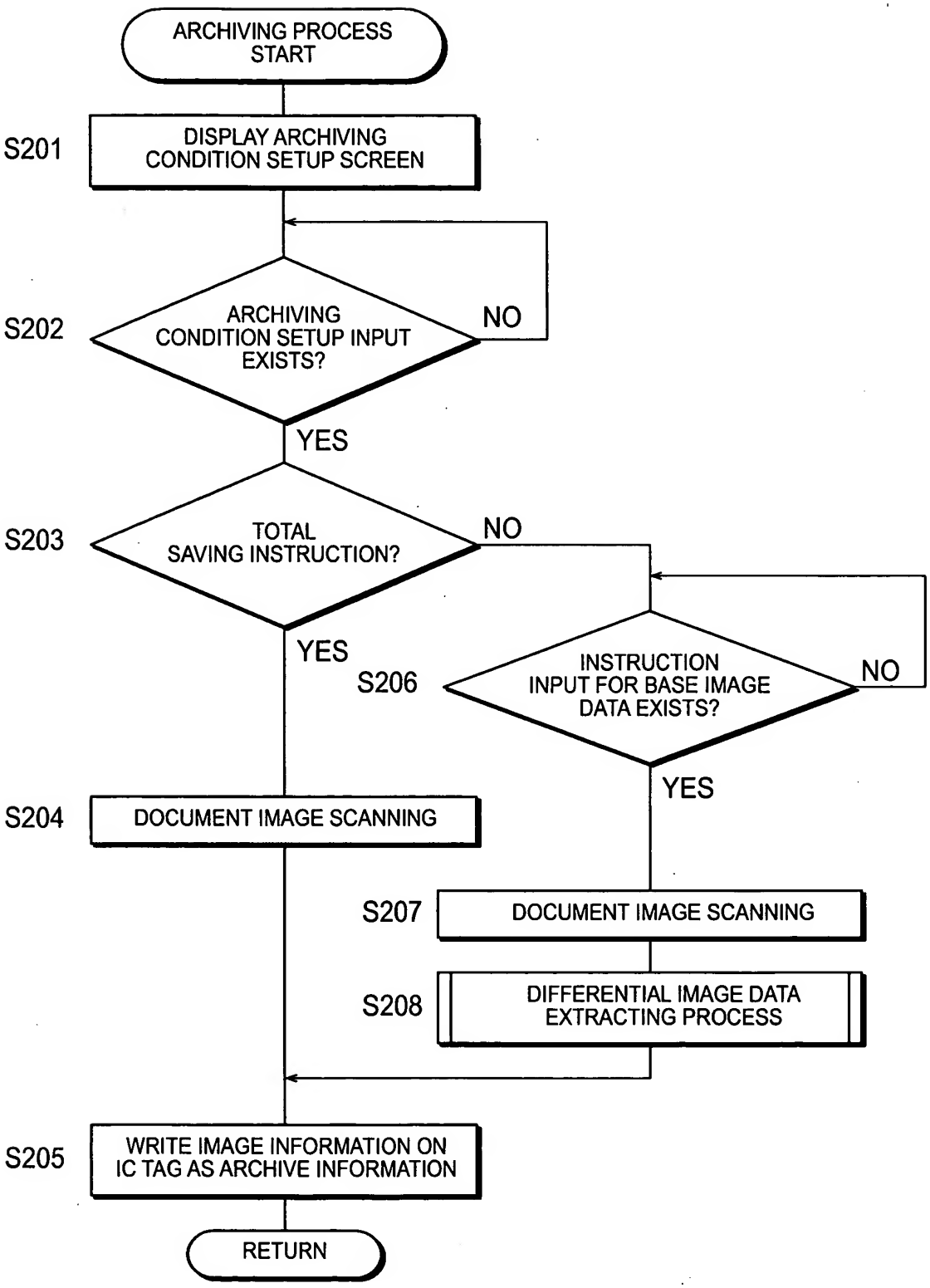

ARCHIVING PROCESS START
S201
DISPLAY ARCHIVING CONDITION SETUP SCREEN
S202
ARCHIVING CONDITION SETUP INPUT EXISTS?
NO
YES
S203
TOTAL SAVING INSTRUCTION?
NO
YES
S206
INSTRUCTION INPUT FOR BASE IMAGE DATA EXISTS?
NO
YES
S204
DOCUMENT IMAGE SCANNING
S207
DOCUMENT IMAGE SCANNING
S208
DIFFERENTIAL IMAGE DATA EXTRACTING PROCESS
S205
WRITE IMAGE INFORMATION ON IC TAG AS ARCHIVE INFORMATION
RETURN

FIG. 6

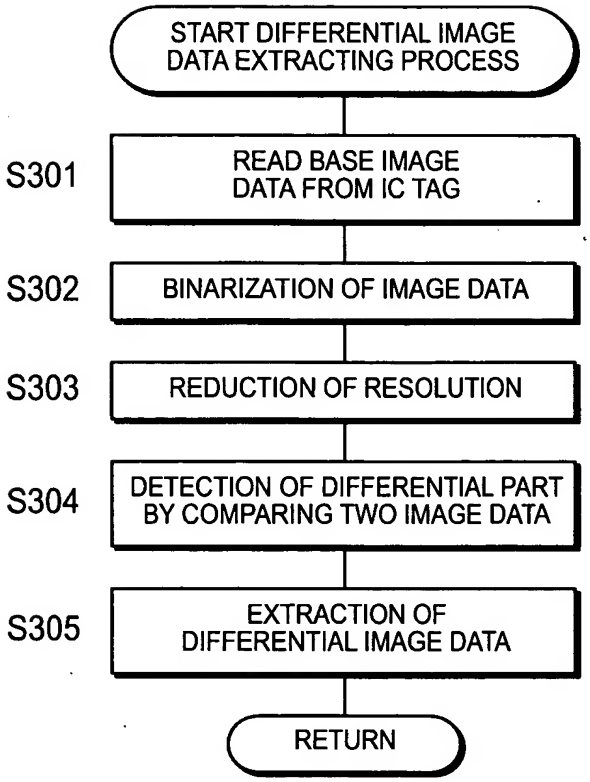

START DIFFERENTIAL IMAGE DATA EXTRACTING PROCESS
S301
READ BASE IMAGE DATA FROM IC TAG
S302
BINARIZATION OF IMAGE DATA
S303
REDUCTION OF RESOLUTION
S304
DETECTION OF DIFFERENTIAL PART BY COMPARING TWO IMAGE DATA
S305
EXTRACTION OF DIFFERENTIAL IMAGE DATA
RETURN

FIG. 7

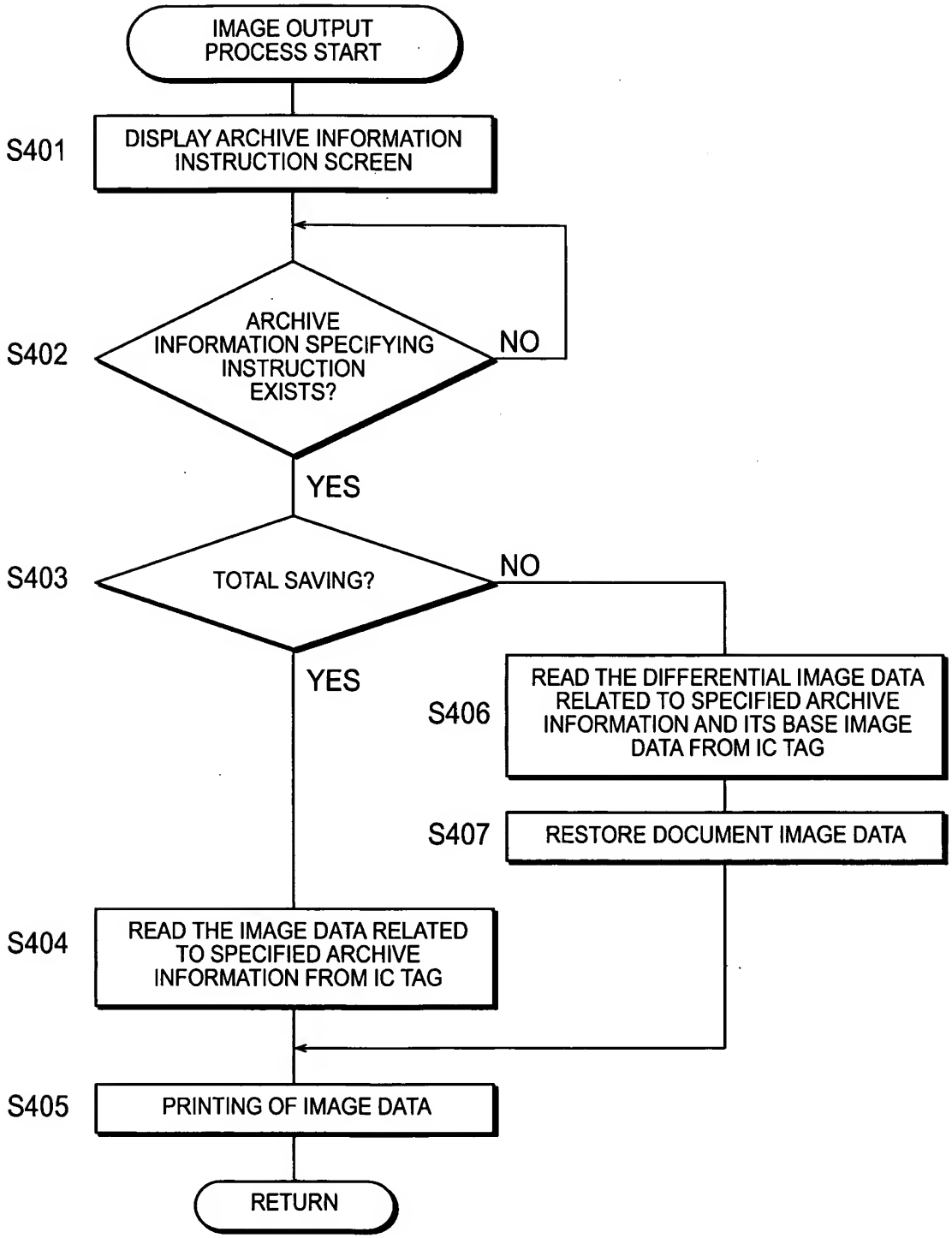


IMAGE OUTPUT PROCESS START
S401
DISPLAY ARCHIVE INFORMATION INSTRUCTION SCREEN
S402
ARCHIVE INFORMATION SPECIFYING INSTRUCTION EXISTS?
NO
YES
S403
TOTAL SAVING?
NO
YES
S406
READ THE DIFFERENTIAL IMAGE DATA RELATED TO SPECIFIED ARCHIVE INFORMATION AND ITS BASE IMAGE DATA FROM IC TAG
S407
RESTORE DOCUMENT IMAGE DATA
S404
READ THE IMAGE DATA RELATED TO SPECIFIED ARCHIVE INFORMATION FROM IC TAG
S405
PRINTING OF IMAGE DATA
RETURN

FIG. 8

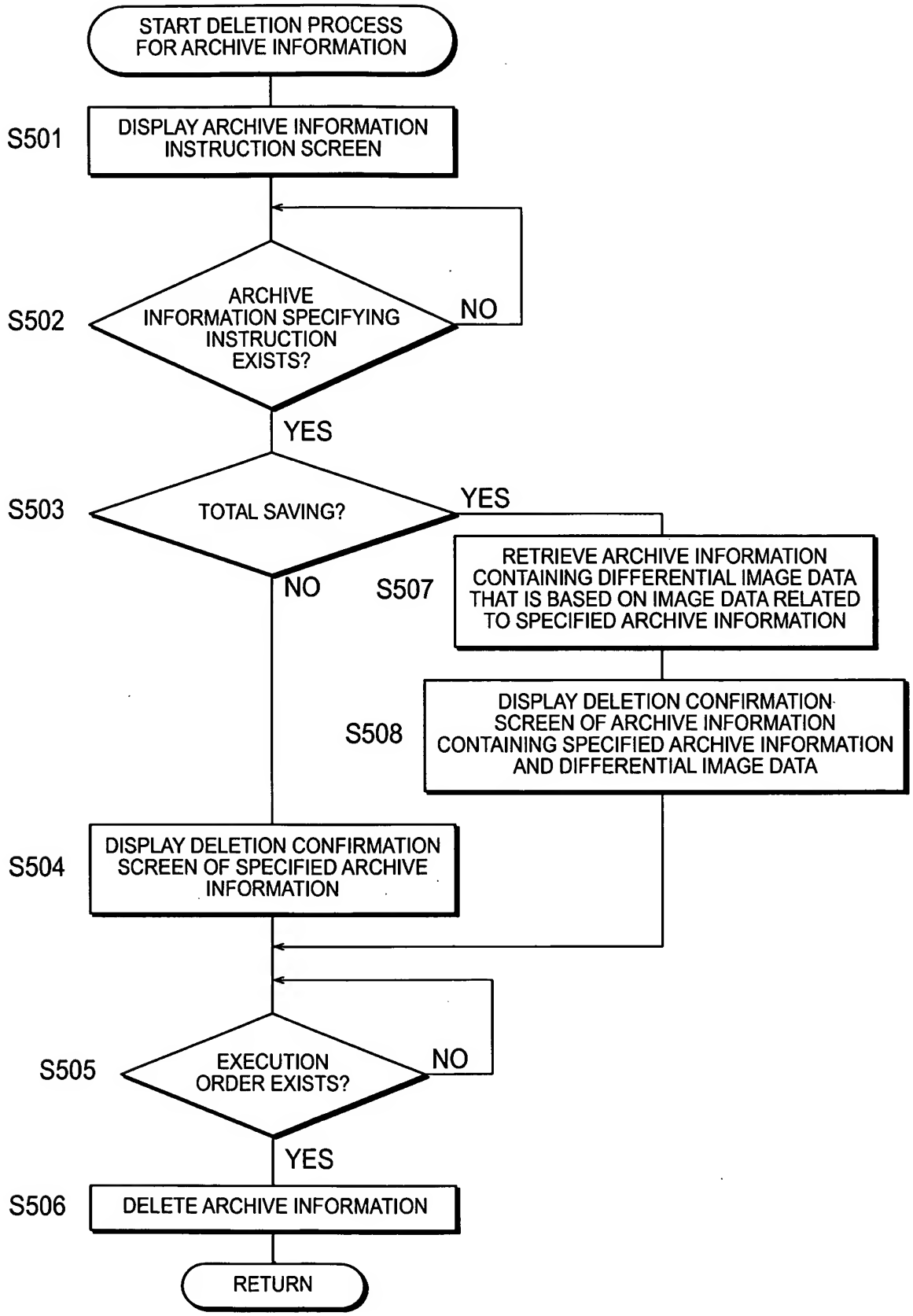

START DELETION PROCESS FOR ARCHIVE INFORMATION
S501
DISPLAY ARCHIVE INFORMATION INSTRUCTION SCREEN
S502
ARCHIVE INFORMATION SPECIFYING INSTRUCTION EXISTS?
NO
YES
S503
TOTAL SAVING?
YES
NO
S507
RETRIEVE ARCHIVE INFORMATION CONTAINING DIFFERENTIAL IMAGE DATA THAT IS BASED ON IMAGE DATA RELATED TO SPECIFIED ARCHIVE INFORMATION
S508
DISPLAY DELETION CONFIRMATION SCREEN OF ARCHIVE INFORMATION CONTAINING SPECIFIED ARCHIVE INFORMATION AND DIFFERENTIAL IMAGE DATA
S504
DISPLAY DELETION CONFIRMATION SCREEN OF SPECIFIED ARCHIVE INFORMATION
S505
EXECUTION ORDER EXISTS?
NO
YES
S506
DELETE ARCHIVE INFORMATION
RETURN

FIG. 9

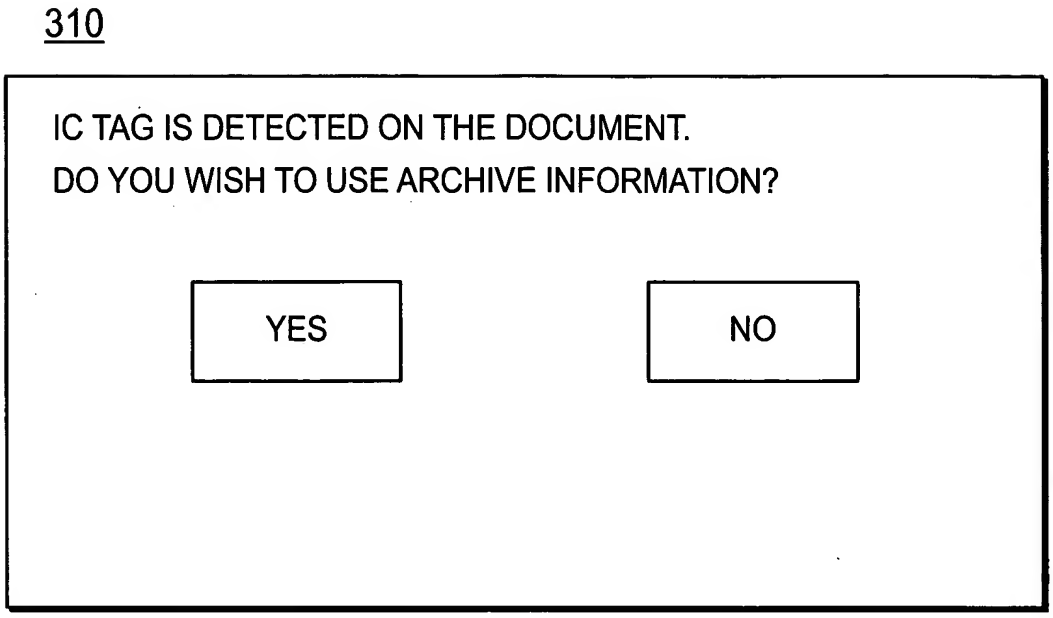

310
IC TAG IS DETECTED ON THE DOCUMENT.
DO YOU WISH TO USE ARCHIVE INFORMATION?
YES
NO

FIG.10

400

ARCHIVED DATE/TIME	SAVING TYPE	TITLE	DOCUMENT SIZE	RESOLUTION	SCAN MODE	IMAGE DATA
2003/09/03	DIFFERENCE	3RD MEETING	A4	200dpi	MONOCHROMATIC	.....
2003/08/13	TOTAL	MEETING MATERIALS (REV)	A4	400dpi	COLOR	.....
2003/08/08	DIFFERENCE	2ND MEETING	A4	200dpi	MONOCHROMATIC	.....
2003/07/03	DIFFERENCE	1ST MEETING	A4	200dpi	MONOCHROMATIC	.....
2003/05/03	TOTAL	MEETING MATERIALS	A4	400dpi	COLOR	.....

FIG.11

320

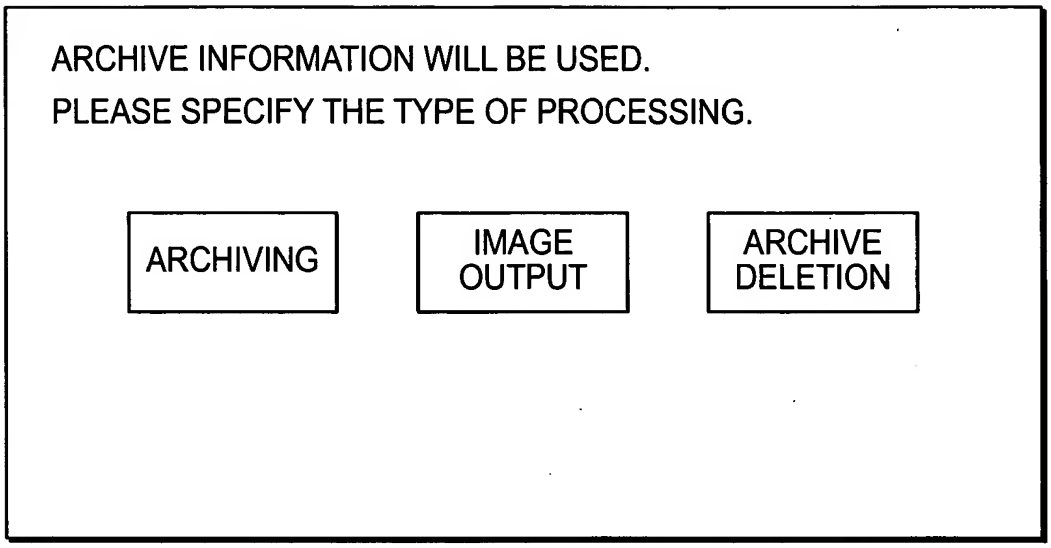


FIG.12

330

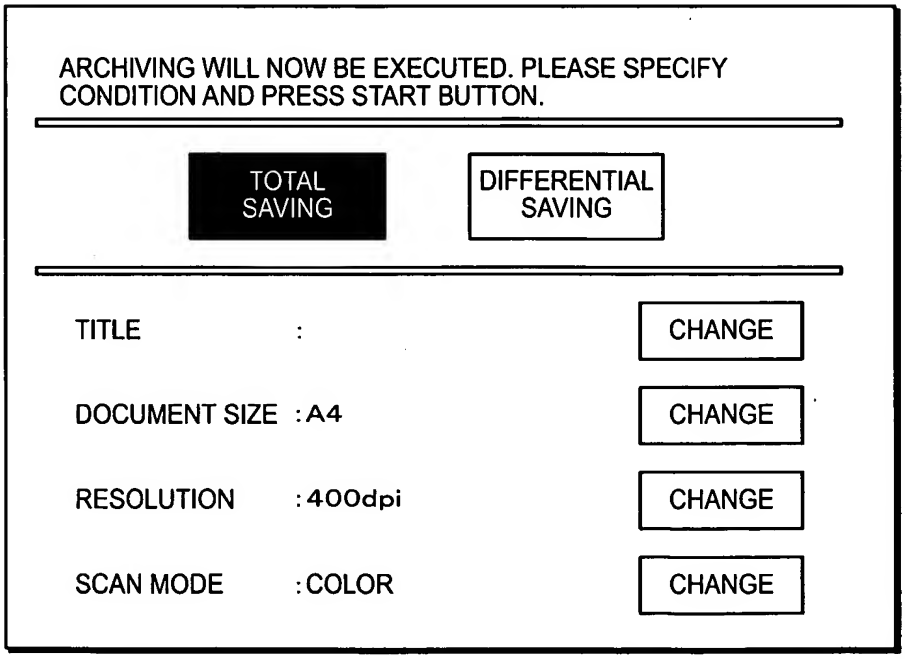


FIG.13

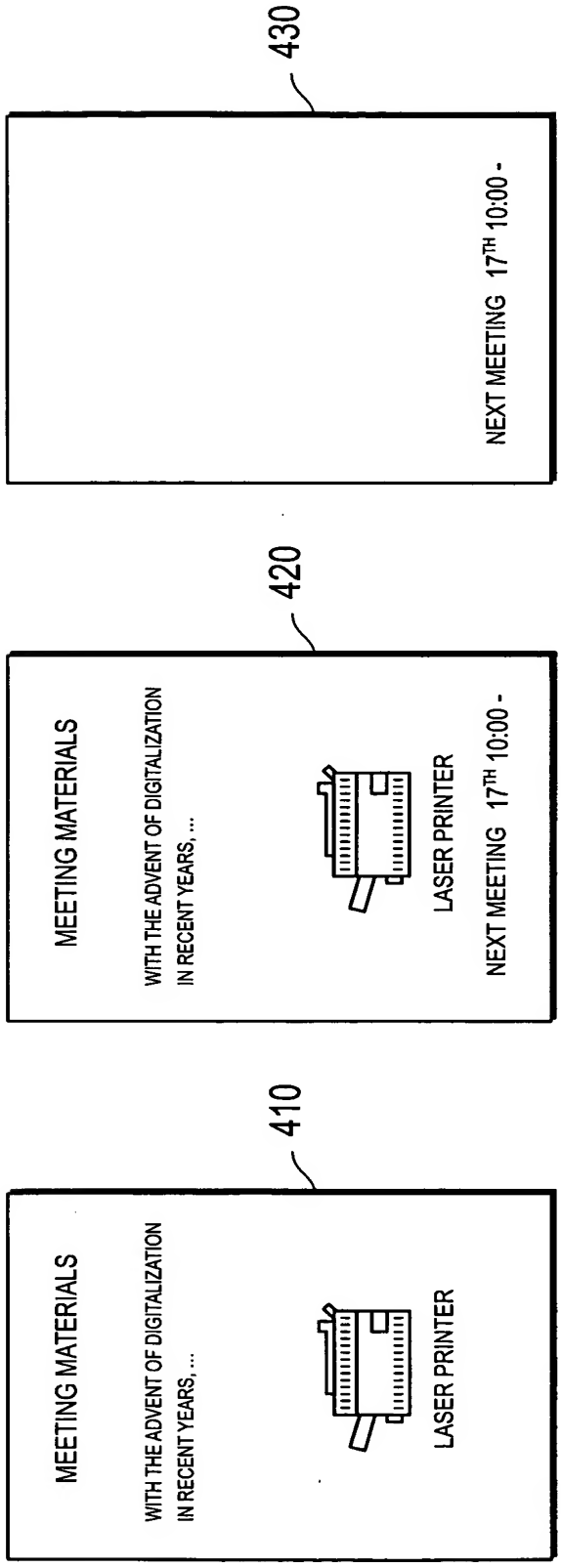

410
MEETING MATERIALS
WITH THE ADVENT OF DIGITALIZATION IN RECENT YEARS, ...
LASER PRINTER
420
MEETING MATERIALS
WITH THE ADVENT OF DIGITALIZATION IN RECENT YEARS, ...
LASER PRINTER
NEXT MEETING 17TH 10:00 -
430
NEXT MEETING 17TH 10:00 -

FIG.14

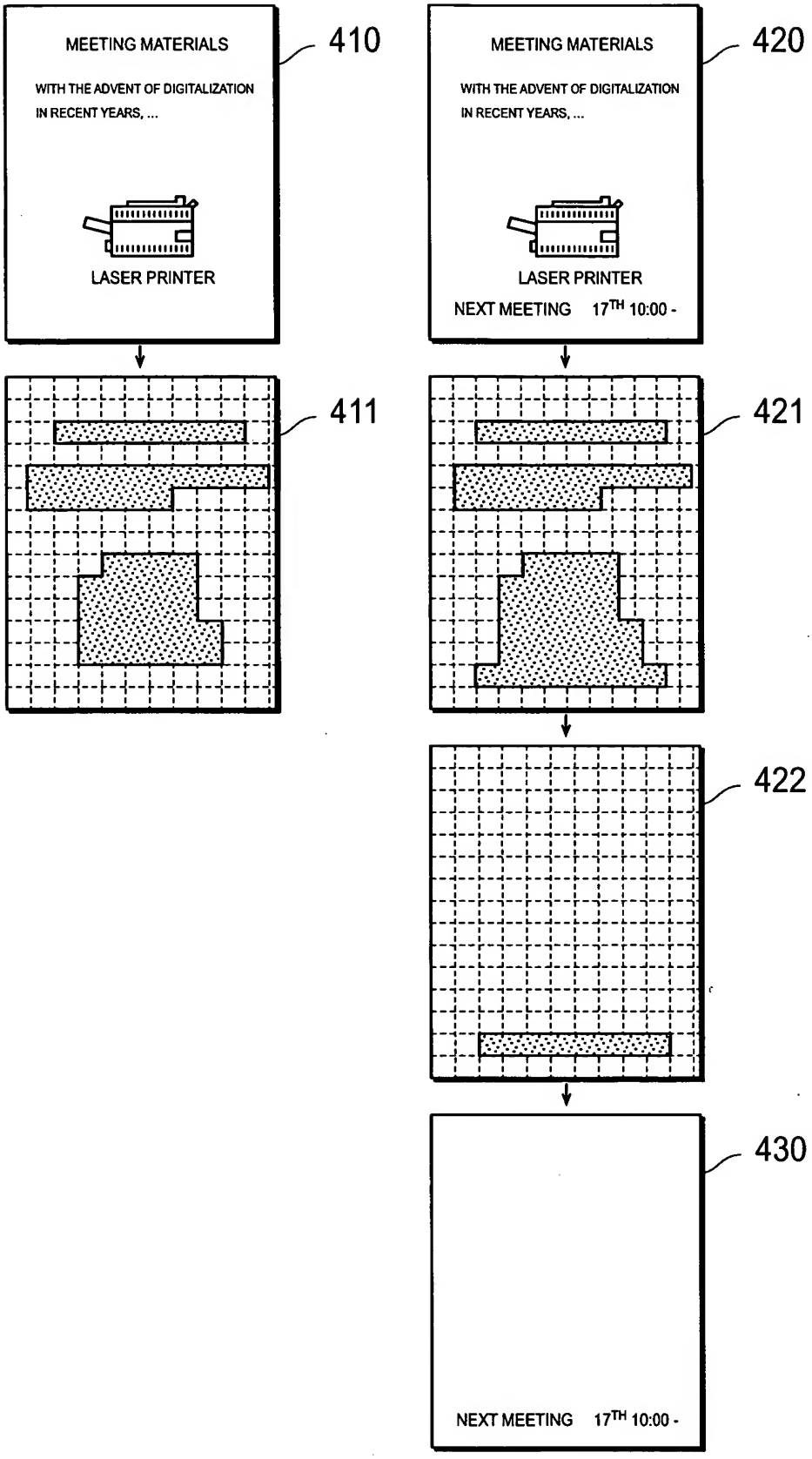

MEETING MATERIALS
WITH THE ADVENT OF DIGITALIZATION IN RECENT YEARS, ...
LASER PRINTER
410
411
MEETING MATERIALS
WITH THE ADVENT OF DIGITALIZATION IN RECENT YEARS, ...
LASER PRINTER
NEXT MEETING 17TH 10:00 -
420
421
422
NEXT MEETING 17TH 10:00 -
430

FIG.15

340

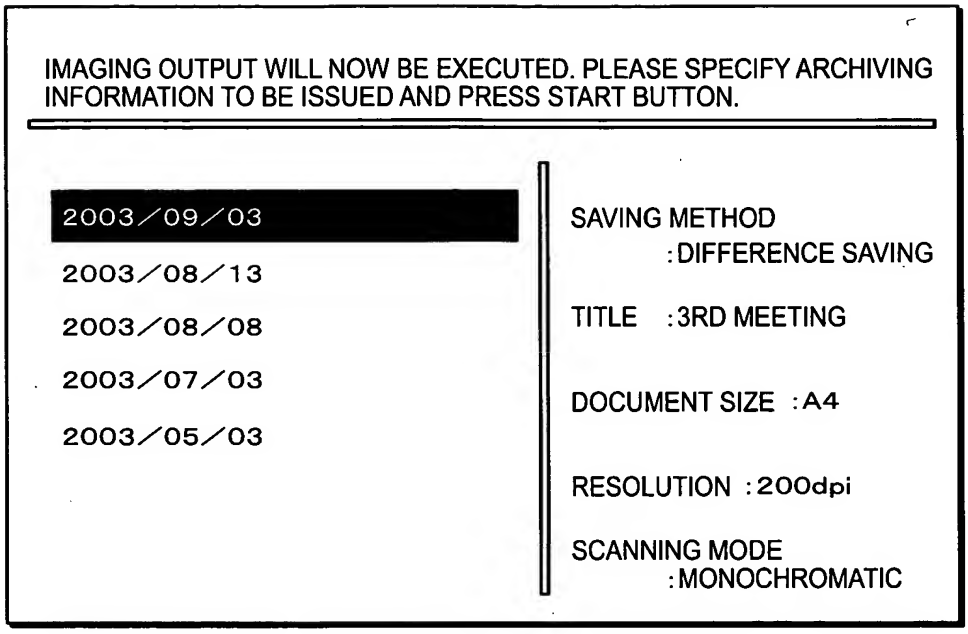


FIG.16

350

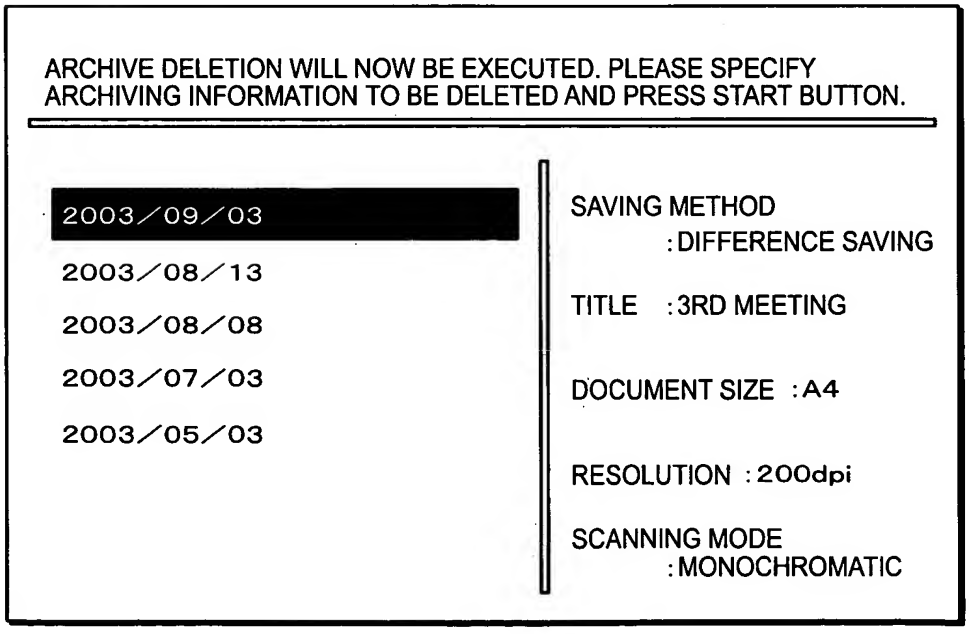


FIG.17

360

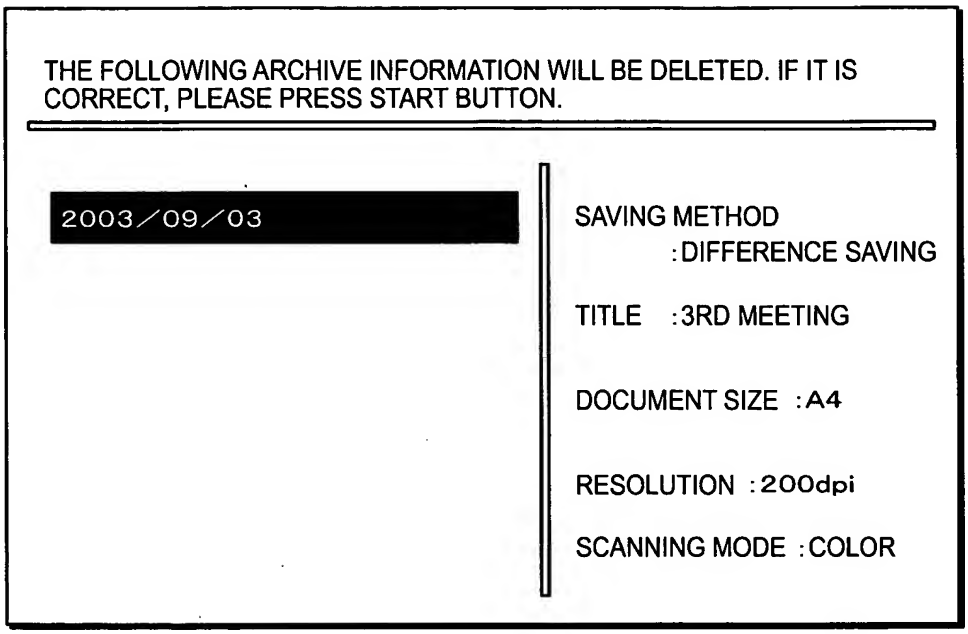
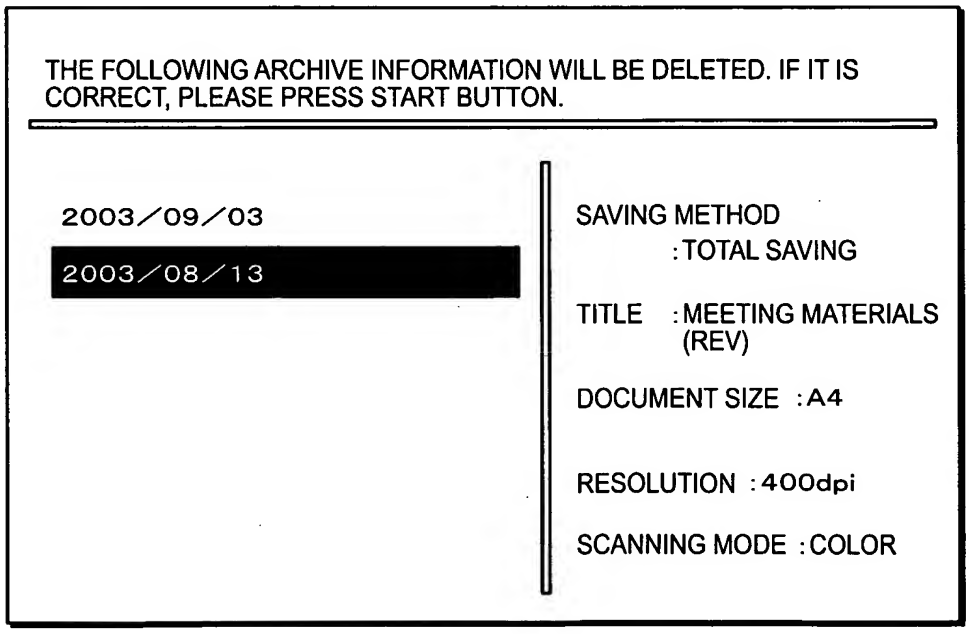


FIG.18

370